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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,418	03/26/2004	Robert C. Malkemes	MALKEMES 1-9-8-2	8934
⁴⁷³⁹⁶ HITT GAINES	7590 07/11/2007 S. PC	,	EXAMINER	
LSI Corporation			GELIN, JEAN ALLAND	
PO BOX 832570 RICHARDSON, TX 75083			ART UNIT	PAPER NUMBER
			2617	
			NOTIFICATION DATE	DELIVERY MODE
			07/11/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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-	Application No.	Applicant(s)				
	10/810,418	MALKEMES ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jean A. Gelin	2617				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	N. imely filed m the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 17 A	A <i>pril 2007</i> .					
2a)⊠ This action is FINAL . 2b)☐ Thi	This action is FINAL . 2b) This action is non-final.					
,	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) 1,3-7,10-15 and 17-22 is/are pending 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1, 3-7, 10-15, and 17-22 is/are rejection is/are objected to. 8) □ Claim(s) are subject to restriction and/or	eted.					
Application Papers						
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the Examination.	cepted or b) objected to by the drawing(s) be held in abeyance. So ction is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applica Drity documents have been received (PCT Rule 17.2(a)).	ition No ved in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal					
Paper No(s)/Mail Date 6) Dther:						

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DETAILED ACTION

1. This is in response to the Applicant's arguments and amendments filed on April 17, 2007 in which claims 1, 3, 8, 15, and 17-21 have been amended, claim 22 has been added, and claims 2, 9, and 16 have been canceled. Claims 1, 3-7, 10-15, and 17-22 are currently pending.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 3-5, 8, 10-12, 15, and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aaltonen et al. (US 2005/0097053) in view of Marko et al. (US 6,243,427).

Regarding to claims 1, 8, and 15, Aaltonen teaches broadcast retransmitter for use with a wireless local area network (WLAN) (fig. 1), comprising: a gateway configured to format a bitstream received from a broadcast receiver (i.e., GTW 18 coupled to AP 30 received content from digital broadcaster 32 or server 22, and configured to communicate with the terminal 10 using the WLAN technique [0032]) for: delivery to a wireless access point (WAP) of said WLAN ([0032]); and subsequent conversion by said WAP into a wireless transmission over said WLAN to make said

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bitstream available for reception by a client of said WLAN (i.e., converting the content to a form suitable to use by the terminal 10, [0044] and [0055]-[0057]).

Aaltonen fails to specifically teaches the bitstream including an aggregate signal resulting from a combination of a plurality of signals, at least one signal of the plurality of signals received from the satellite. However, the preceding limitation is known in the art of communications. Marko teaches a satellite digital audio service (SDAR) receiver architecture; the system comprises a arrangement for receiving the satellite digital audio radio signal and distributing a converted signal in response thereto (col. 2, lines 27-20); the SDAR receiver are designed to receive one or both of the satellite signals and the signal from the terrestrial repeaters and combine or select one of the signals as the receiver output, and the repeater (having feature to format bitstream) receives and retransmit the satellite signal (col. 3, line 13 to col. 4, line 30). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to implement the technique of Marko within the system Aaltonent in order to facilitate reliable reception in geographic areas where LOS reception from satellites is obscured by obstructions.

Regarding to claims 3, 10, and 17, Aaltonen in view of Marko teaches all the limitations above. Aaltonen further teaches said broadcast receiver is a terrestrial receiver ([0034]).

Regarding to claims 4, 11, and 18, Aaltonen in view of Marko teaches all the limitations above. Aaltonen further teaches wherein said gateway formats said bitstream

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according to a format selected from the group consisting of: Ethernet, any number of interfaces such as IEEE 1394, USB, and PCI ([0032], [0040]-[0041]).

Regarding to claims 5, 12, and 19, Aaltonen in view of Marko teaches all the limitations above. Aaltonen further teaches said WLAN conforms to an IEEE 802.11 standard (i.e., corresponding to Bluetooth interface or short range interface, [0040]-[0041]).

Regarding to claims 5, 12, and 19, Aaltonen in view of Marko teaches all the limitations above. Marko further teaches said aggregate signal is generated by a maximal ratio combiner (col. 5, lines 16-30).

4. Claims 6, 13, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aaltonen et al. (US 2005/0097053) in view of Marko further in view of Eng (US 6,370,153).

Regarding to claims 6, 13, and 20, Aaltonen and Marko teach all the limitations above except bitstream includes a plurality of channels and a channel is subsequently selected therefrom.

However, the preceding limitation is known in the art of communications. Eng teaches one bitstream containing an indication of one of the slots of upstream payload channel is assigned to station for transmission (col. 4, lines 28-67). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to implement the technique of Eng within the system of Aaltonen and Marko in order that the reservation request control packet can indicate the address or identifier of the SS, the number or size of slots needed transmit payload packet.

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5. Claims 7, 14, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Aaltonen et al. (US 2005/0097053) in view of Marko further in view of Chen (US

6,728,824).

Regarding to claims 7, 14, and 21, Aaltonen and Marko teach all the limitations

above except a channel selector interposing said broadcast receiver and said gateway,

said bitstream including a selected channel.

However, the preceding limitation is known in the art of communications. Chen

teaches a method for controlling incoming multi-channel bitstreams and the selector

selects the memory controller based on received data type in an incoming bitstream

(col. 2, lines 48-67). Therefore, it would have been obvious to one of ordinary skill in the

art, at the time of the invention, to implement the technique of Chen within the system of

Aaltonen and Marko in order to store data from an incoming bitstream without storing an

associated data type for each data word.

Response to Arguments

6. Applicant's arguments with respect to claims 1, 3-7, 10-15, and 17-22 have been

considered but are most in view of the new ground(s) of rejection.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

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Akatsu et al. US 6,633,547 10/14/2003

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean A. Gelin whose telephone number is (571) 272-7842. The examiner can normally be reached on 9:30 AM to 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on (571) 272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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JGelin June 12, 2007 JEAN GELIN PRIMARY EXAMINER